



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Product identity: CBD Hazelnut Bar Batch #19077 **Client/Metric ID:** .
Laboratory ID: 19-003167-0002 **Sample Date:**

Summary

Potency:

Analyte	Result (%)								
CBD	0.168								
CBD-A	0.0223								
		<ul style="list-style-type: none"> ● CBD ● CBD-A 							
			<table border="1"> <tr> <td>CBD-Total</td> <td>0.188%</td> </tr> <tr> <td>THC-Total</td> <td>< 0.006%</td> </tr> <tr> <td colspan="2" style="text-align: center;">(Reported in percent of total sample)</td> </tr> </table>	CBD-Total	0.188%	THC-Total	< 0.006%	(Reported in percent of total sample)	
CBD-Total	0.188%								
THC-Total	< 0.006%								
(Reported in percent of total sample)									



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Customer: Sovereign Medicinals Inc
4207 SE Woodstock Blvd #507
Portland Oregon 97206
United States

Product identity: CBD Hazelnut Bar Batch #19077

Client/Metric ID: .

Sample Date:

Laboratory ID: 19-003167-0002

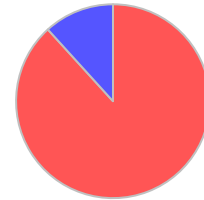
Relinquished by: Tait Christensen

Temp: 15.9 °C

Serving Size #1: 54.71 g

Sample Results

Potency	Method J AOAC 2015 V98-6			Units %	Batch 1902576	Analyze 03/27/19 03:53 AM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC†	< LOQ		0.0033			
CBC-A†	< LOQ		0.0033			
CBC-Total†	< LOQ		0.0063			
CBD	0.168		0.0033			
CBD-A	0.0223		0.0033			
CBD-Total	0.188		0.0063			
CBDV†	< LOQ		0.0033			
CBDV-A†	< LOQ		0.0033			
CBDV-Total†	< LOQ		0.0062			
CBG†	< LOQ		0.0033			
CBG-A†	< LOQ		0.0033			
CBG-Total†	< LOQ		0.0063			
CBL†	< LOQ		0.0033			
CBN	< LOQ		0.0033			
Δ8-THC†	< LOQ		0.0033			
Δ9-THC	< LOQ		0.0033			
THC-A	< LOQ		0.0033			
THC-Total	< LOQ		0.0063			
THCV†	< LOQ		0.0033			
THCV-A†	< LOQ		0.0033			
THCV-Total†	< LOQ		0.0062			



● CBD
● CBD-A

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Pixis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be kept a maximum of 15 days from the report date unless prior arrangements have been made.



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Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Units of Measure

g = Gram

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 1902576							
Laboratory Control Sample									
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes		
CBDV-A	0.00974	0.01	%	97.4	85 - 115	Acceptable			
CBDV	0.0102	0.01	%	102	85 - 115	Acceptable			
CBD-A	0.00950	0.01	%	95.0	85 - 115	Acceptable			
CBG-A	0.00986	0.01	%	98.6	85 - 115	Acceptable			
CBG	0.0103	0.01	%	103	85 - 115	Acceptable			
CBD	0.0101	0.01	%	101	85 - 115	Acceptable			
THCV	0.0100	0.01	%	100	85 - 115	Acceptable			
THCVA	0.0096	0.01	%	96.0	85 - 115	Acceptable			
CBN	0.0108	0.01	%	108	85 - 115	Acceptable			
THC	0.0108	0.01	%	108	85 - 115	Acceptable			
D8THC	0.00946	0.01	%	94.6	85 - 115	Acceptable			
CBL	0.00987	0.01	%	98.7	85 - 115	Acceptable			
CBC	0.0105	0.01	%	105	85 - 115	Acceptable			
THCA	0.0101	0.01	%	101	85 - 115	Acceptable			
CBCA	0.00934	0.01	%	93.4	85 - 115	Acceptable			

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes			
CBDV-A	ND	0.003	%	< 0.003	Acceptable				
CBDV	ND	0.003	%	< 0.003	Acceptable				
CBD-A	ND	0.003	%	< 0.003	Acceptable				
CBG-A	ND	0.003	%	< 0.003	Acceptable				
CBG	ND	0.003	%	< 0.003	Acceptable				
CBD	ND	0.003	%	< 0.003	Acceptable				
THCV	ND	0.003	%	< 0.003	Acceptable				
THCVA	ND	0.003	%	< 0.003	Acceptable				
CBN	ND	0.003	%	< 0.003	Acceptable				
THC	ND	0.003	%	< 0.003	Acceptable				
D8THC	ND	0.003	%	< 0.003	Acceptable				
CBL	ND	0.003	%	< 0.003	Acceptable				
CBC	ND	0.003	%	< 0.003	Acceptable				
THCA	ND	0.003	%	< 0.003	Acceptable				
CBCA	ND	0.003	%	< 0.003	Acceptable				

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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J AOAC 2015 V98-6		Batch ID: 1902576						
Sample Duplicate		Sample ID: 19-003137-0001						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBDV	0.0265	0.0262	0.003	%	1.14	< 20	Acceptable	
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable	
CBG	0.0807	0.0783	0.003	%	3.02	< 20	Acceptable	
CBD	5.83	5.79	0.003	%	0.688	< 20	Acceptable	
THCV	ND	ND	0.003	%	0	< 20	Acceptable	
THCVA	ND	ND	0.003	%	0	< 20	Acceptable	
CBN	0.114	0.111	0.003	%	2.67	< 20	Acceptable	
THC	0.132	0.127	0.003	%	3.86	< 20	Acceptable	
D8THC	ND	ND	0.003	%	0	< 20	Acceptable	
CBL	ND	ND	0.003	%	0	< 20	Acceptable	
CBC	0.327	0.318	0.003	%	2.79	< 20	Acceptable	
THCA	ND	ND	0.003	%	0	< 20	Acceptable	
CBCA	ND	ND	0.003	%	0	< 20	Acceptable	

Abbreviations

ND - None Detected at or above MRL
RPD - Relative Percent Difference
LOQ - Limit of Quantitation

Units of Measure:

% - Percent



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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Job Number: 19-003167
Report Number: 19-003167-00
Report Date: 04/02/2019
ORELAP#: OR100028
Purchase Order:
Received: 03/25/19 14:50

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Product identity: CBD Hazelnut Bar Batch #19077 **Client/Metric ID:** .
Laboratory ID: 19-003167-0006 **Sample Date:**

Summary

Microbiology:

Less than LOQ for all analytes.



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Customer: Sovereign Medicinals Inc
4207 SE Woodstock Blvd #507
Portland Oregon 97206
United States

Product identity: CBD Hazelnut Bar Batch #19077

Client/Metric ID: .

Sample Date:

Laboratory ID: 19-003167-0006

Relinquished by: Tait Christensen

Temp: 15.9 °C

Sample Results

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1902480	03/27/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1902480	03/27/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1902479	03/29/19	AOAC 997.02 (Petrifilm)	X
Yeast	< LOQ		cfu/g	10	1902479	03/29/19	AOAC 997.02 (Petrifilm)	X



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Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Units of Measure

cfu/g = Colony forming units per gram

% wt = $\mu\text{g/g}$ divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



This report cannot be used for ODA, OHA or OLCC compliance requirements.

Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.